



Attorney Docket No. 51890

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Arao et al.

U.S.S.N.: 10/768,940

GROUP ART UNIT: 1752

FILED: January 30, 2004

EXAMINER: Amanda C. Walke

FOR: NEGATIVE-TYPE PHOTSENSITIVE RESIN COMPOSITION CONTAINING  
EPOXY COMPOUND

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on -

7/28/2006

By:

*Deanna M. Rivernider*  
Deanna M. Rivernider

**SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications or other information submitted for consideration by the Examiner are listed on the PTO-1449 form, attached hereto. The documents were not previously cited.

In addition to the aforesaid references, Applicants wish to bring to the attention of the Examiner co-pending U.S. Application Serial Nos. 11/365,100 and 11/365,381 both filed March 1, 2006 which applications are assigned to the Assignee of the subject application. A copy of the applications as filed is attached hereto. By citation of these co-pending applications, secrecy thereof is not waived.

**II. COPIES**

Submitted herewith is a legible copy of (i) non-patent literature and each foreign patent or English abstract of a foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

Pursuant to 37 C.F.R. 1.98(a), Applicant is not required to furnish copies of the cited U.S. patents or patent application publications for all U.S. national patent applications filed after June 30, 2003.

### III. CONCISE EXPLANATION OF THE RELEVANCE

All of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

#### FEES

### IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)

(check one box)

- a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☐ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

### V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):

(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. ☒ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- or
- b. ☐ See the certification below. No fee is required.

### VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

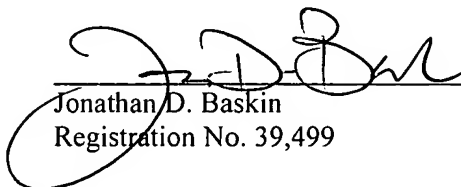
- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

- ☐ Enclosed please find a check in the amount of \$\_\_\_\_\_ for the above indicated fee.
- ☒ Please charge Deposit Account No. 18-1850 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.
- ☐ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 18-1850.

Respectfully submitted,

  
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT



ATTY DOCKET NO.

51890

SERIAL NO.

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APPLICANT(S): Arao, et al

FILING DATE:

01/30/2004

ART UNIT:

1752

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILE DATE IF APPR.
	AA	5,300,380	04/1994	Roth et al.			
	AB	5,312,715	05/1994	Daniels, et al			
	AC	5,334,671	08/1994	Yezrielev et al.			
	AD	2004/0219451	11/2004	Arao et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO
	BA	JP 55-129341	10/1980	JAPAN			YES
	BB	JP 60-026943	07/1983	JAPAN			YES
	BC	JP 1993-273753	10/1993	JAPAN			YES
	BD	JP 1994-102662	04/1994	JAPAN			YES
	BE	JP 1997-087362	08/1994	JAPAN			YES
	BF	JP 1997-132623	08/1994	JAPAN			YES

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, PUBLICATION, DATE, PERTINENT PAGES, ETC.)

CA	Edward D. Weil, et al, "A Review of Current Flame Retardant Systems for Epoxy Resins", Journal of Fire Sciences, Vol. 22, Jan. 2004, pp. 25-40.
CB	Masatoshi Iji, et al, "Flame retardant epoxy resin compounds containing novolac derivatives with aromatic compounds", Polymers for Advanced Technologies, Vol. 12, 2001, pp. 393-406.
CC	Kiuchi et al., "Development of Environmentally Safe Flame-Retarding Epoxy Resin Compounds without Halogen and Phosphorus Derivatives and Their Application to Printed Wiring Boards", NEC Res. & Development, Vol. 44, No. 3, July 2003, pp. 256-262.
CD	Licari, JJ., "Coating Materials for Electronic Applications-Polymers, Processes, Reliability, Testing, Publisher: William Andrew Publishing/Noyes, 2003 ISBN 0-8155-1492-1 released on Knovel database June 3, 2003.

Examiner:

Date: